



NCERT



CHAPTER WISE TOPIC WISE

LINE BY LINE QUESTIONS





BY SCHOOL OF EDUCATORS

BIOLOGICAL CLASSIFICATION

1ST PERSON TO USE SCIENTIFIC CLASSIFICATION ARISTOTLE

Plants Trees

- Skrubs

Animals

Animals with red blood Animals without red blood

2Nd KINGDOM CLASSIFICATION SYSTEM LINNAEUS



Plantae

Drawbacks:- Didn't distinguish between

- · Eukaryotes and Prokaryotes
- · Unicellular and Multicellular
- . PhotoSynthetic and Non Photosynthetic organisms

3rd KINGDOM CLASSIFICATUION SYSTEM ERNST HAECKEL

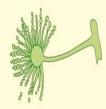
Living Organisms

Animalia Plantae

Protista

Limitations :- Didn't Separate ·Prokaryotes and Eukaryotes -

. Diaced Unicellular and S multicellular under Protista



ASCOMUCETES (SOIC - FUNGI)

Unicellular (yeast) and Multicellular (Penicillium) Asexual secres (Codidia) Sexual Spores (Ascospores) EA. ASperaittus, Neurospora

ProtozogNS

Primitive relatives. Osmoregulation LYPES:- Amoeboid flagellated a Citiated

Slime Moulds

IN favourable

Plasmodium.

in Unfavourable

fruiting bodi

Chrysophytes

marine

fresh water and

Diatoms'chief"Produ-

cers"in ocean

PhotoSynthetic

Golden algae &

Iunicellular green

2. PROTISTA

Eukaryotic, Unicettular Autotropic Heterotrophic

Flagella. PSeudopodia

Reproduction - ASexual

and Sexual (Cell Fusion

and 2490te formation)

Basidiomycetes

(MUShrooms)

IN Soil, logs and tree Stumps

Parasites. (eg - rust & smuts)

Making types and Sex organs.

Reproduction - Vegetative.

Eg. Agaricus, Vstilago

Marine

Dinoflagellates

2 flagellated Biotominescence ES:- GONYAULAX(Red)

EUGLENOIDS fresh water Highly resistance.

Photosynthetic OF SUNLIGHED Heterotrophs / dbSence. of SUNLIGHT

eg:- Euglena

Algae

BIOLOGICAL CLASSIFICATION

1. MONERA

Prokaryotic, Unicellular. AULOLTOPAS Heterotropas Non - cellulosic cell wall. Nuclear membrane absent. Myoplasm :- Pleomorphic. called PPLO (Pleuro PNeumonia like

- Smallest living cells.
- Reproduction -ASexual and Sexual

Eubacteria (True Bacteria)

(i) Photosynthetic Autotrophs

(ii) Chemosynthetic Autotrophs

(iii) Heterotrophic Bacteria

Eg:- Cyanobacteria (blue green algae) has chlorophylla

Archaebacteria (Ancient living tossils)

(i) Methanogens (marshy areas)

(Hot Springs)

(ii) Hatophites (Salty areas)

(iii) Thermoacidophiles

Eg:- Streptococcus thermophilus

VIRUSES

Non - Cellular Obligate ParaSite Have infectious genetic material Genetic material



bacteria Double Stranded DNA

- Head (capsid)
- Sheath
- Tail fibers

virus cause mumps, small pox, etc.

4. PLANTAE

- Eukaryotic, Multicellular. Autotrophic, Cell wall - cellulose
- Partially Leterotropus (INUCLIVOROUS PLANES) Complete Parasails (Cuscuta)
- Shows alteration of generation
- . Reproduction Sexual

5 KINGDOM CLASSIFICATION

Eg:- Herbs, Shrubs and trees.

Angiosperms Bryophytes Pteridophytes Gymnosperms

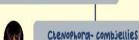
PRIONS

Cause infectious neurological discases Similar in Size to viruses Have abnormal folded

LICHENS

Symbiotic association between algae and ALGOR COMPONENT Very good Pollution indicators FUNGI COMPONENT мисовіомь

Hemichrodata - Balanoglossus



Echinodermata - Starfish

Phycomycetes

Acquatic on decaying

Reproduction

ASEXUAL (Zoospores

eg:- Mucor, Rhizopus

or APLANOSPORES)

wood, moist & damp Places

chitin. Some torm Aquatic. Moist and damp places. (Lower fungi)

HYPHOL LYPE:- (i) COENOCYLICHYPHOLE, (ii) Other with Septage or cross walls Mode of Nutrition:-

3. FUNGI

Eukaryotic. Mostly multicellular

Heterotrophs Saprophytic cell wall

(i) Saprophytic (ii) Parasitic

fiiil Symbiotic

Reproduction:- Vegetative ASexual and Sexual.



5. ANIMALIA

Gukaryotic, Multicellular. Heterotrophic, Cell wall- Absent

Shows locomotion High Sensory & motor mechanism. Reproduction - Sexual.

Eg. Vertebrates.insects etc.

VIROIDS

Infectious, low molecular weight RNA lack Protein coat Smaller than viruses

Deuteromycetes (Imperfect fungi)

Reproduction - vegetative and Sexual Are Decomposers, Saprophytes and Parasites.

Eg: Alternaria. Trickoderma



Platyh elminthes- fasciola Annelida - Earthwarm

Poritera - Sponge

Cridaria- Jellysish

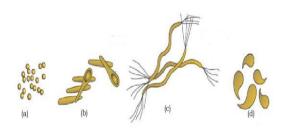
NCERT LINE BY LINE QUESTIONS

2. Biological Classification

1.	Choose the correc A) It was propose	t with respect to earliest f	or scientific basis of o	classification				
			orbe on the basis of th	neir morphological characters				
	,			hen morphological characters have red blood and those that did no				
	D) All of these	lassifica filto two groups	that are those which	Thave rea blood and those that did no				
2.	,	of classification did not de	aal with					
۷.	•			marki callular				
	A) Eukaryotes and		B) Unicellular &	municentiar				
2		& non – photosynthetic	D) All of these	41:				
3.		om according to five king or prokaryotes exclusivel		nd Linnaeus system of classification				
	A) 1, 0	B) 1, 1	C) 2, 0	D) 3, 1				
4.	Moneran cell wall	is composed by-						
	A) Polysaccharide	(Non cellulose) only	B) Polysaccharid	e (cellulose)				
	C) Polysaccharide	(chitin)	, •					
	•	d Non cellulosic polysacc	haride					
5.		node of nutrition is found						
	A) Monera	B) Protist	C) Plantae	D) Fungi				
6.	,	ssification is/are based u	•	, - 8				
		& body organization	•	tion & reproduction				
	C) Phylogentic relationship		D) All of these	· •				
7.	, .	sification was proposed i	,					
<i>,</i> .	A) 1969	В) 1996	C) 1699	D) None of these				
8.	,	,	,	D) Notic of these				
0.		Choose the correct about 3 – domain system A) Two domain are dedicated for prolograptic vehilo and domain is dedicated for sylvariation.						
	A) Two domain are dedicated for prokaryotic while one domain is dedicated for eukaryotic B) One domain is dedicated for prokaryotic while two domains are for eukaryotic							
				are for eukaryotic				
		ngdom which are categori		domain while E. Isinadam is second				
		ioni of which one kinguoi	iii is iii iiist and uiiid	domain while 5 - kingdom is second				
0	domain.		DC A /1-1	-1> (
9.		•	ria, BGA (blue green	algae) fungi, mosses, ferns under				
	'Plants' on basis o		D) D 1					
	A) Mode of nutrit		, ,	ation & nuclear structure				
	C) Presence of cell		D) Nature of cell	wall.				
10.	•	owing are prokaryotes:						
				ymnosperms angiosperm				
	A) 1	B) 2	C) 3	D) More than 4				
11.	Fungi has cell wal	l composed of-						
	A) Cellulose		B) Non – cellulos	sic + amino acid				
	C) Chitin		D) Absence of ce	ell wall				
12.	How many kingde	om from R.H. Whittaker s	system does have exc	clusive autotrophic mode of nutrition				
	A) Zero	B) One	C) Two	D) Three				
13.	Unicellular eukary	yotic are categorised in-						
	A) Monera	B) Protista	C) Plantae	D) Animalia				
14.		following does belong to						
	Amoeba, Spirogyra,	Chlamydomonas, Chlorella	, Paramecium					
	A) 5	B) 4	C) 3	D) 2				
15.	In five kingdom cl	lassification multicellular	ity began from -					
	A) Animalia	B) Plantae	C) Protista	D) Fungi				
	•	<u>Pai</u>	<u>ragraph – 2.1</u>					

Kingdom Monera

16. Identify shape of bacteria



- A) a = cocci, b = rod shaped, c = bacilli, d = comma shaped
- B) a = spherical coccus, B = Bacilli, c = spirilla, d = vibrio
- C) a = cocci, b = spirilla, c = vibrio, d = Bacilli
- D) a = vibrio, b = spirilla, c = bacilli, d = coccus
- 17. choose the correct statement:
 - A) Bacteria are sole members of kingdom monera.
 - B) Bacteria are abundant macro organism
 - C) Bacteria occurrence is limited to some area.
 - D) Bacteria can't live in extreme habitat like desert
- 18. On the basis of shape; bacteria are grouped under____ categories
 - A) Four
- B) Five
- C) Three
- D) None of these

- 19. Choose the correctly stated statement
 - A) Bacterial structure and behaviour are complex.
 - B) Bacterial structure and behaviour are simple
 - C) Bacterial structure is complex while behaviour is simple
 - D) Bacterial structure is simple while behaviour is complex
- 20. Synthesis of own food from inorganic substrate is occur in -
 - A) Autotrophic nutrition

B) Chemosynthetic autotroph

C) Photosynthetic autotroph

D) All of these

Paragraph – 2.1.1 Archaebacteria

21. Match the column - I & column - II

Column - I

- (i) Halophiles
- (ii) Thermoacidophiles
- iii) Methanogens
- A) i) c, ii) b, iii a
- C) i) b, ii) c, iii a

Column - II

- (a) Marshy area
- (b) Salty area
- (c) Hot springs
- B) i) c, ii) a, iii b
- D) i) b, ii) a, iii c
- 22. Archaebacteria differ from other bacteria in having -
 - A) Definite nuclear structure

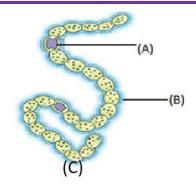
- B) Cell wall structure
- C) Adaptability cytoplasmic concentration
- D) Some membranous cell organelles
- 23. Survival of archaebacteria in extreme condition is achieved by -
 - A) Cell wall structure

B) Some membranous cell organelles

- C) Adaptability & cytoplasm
- D) All of these
- 24. Which of following statement is/are false
 - A) Methanogens are present in alimentary canal of several ruminant animals like cow & buffaloes
 - B) Methanogens are responsible for production of biogas from dung of ruminant animals
 - C) Methanogens are present in gut of several non ruminant like cow & buffaloes
 - D) A & B

Paragraph – 2.1.2 Eubacteria

25. Label A, B and identify organism (c)



- A) A = Heterocyst B = Mucilagenous sheath C = Nostoc, an archaebacteria
- B) A = Heterocyst B = Mucilagenous sheath C = Nostoc
- C) A = Mucilagenous, B = Heterocyst, C = Nostoc
- D) A = heterocyst, B = Mucilagenous sheath, C = Nostoc, a filamentous algae
- 26. Choose the correct about blue green algae
 - i. Also known as cyanobacteria
 - ii. Presence of chlorophyll a, b similar to green plants
 - iii. Photosynthetic autotroph
 - iv) May be unicellular, colonial or filamentous
 - v. Occur in aquatic as well as terrestrial
 - A) i), iii), iv), v)
- B) i), ii), iii), iv), v)
- C) i), ii), iv), v)
- D) None of these

- 27. Nitrogen fixation is done by -
 - A) Specialised vegetative cell i.e. Heterocyst of Nostoc & Anabaena
 - B) Specialised reproductive cell i.e. Heterocyst of Nostac & Anabaena
 - C) Specialised vegetative as well as reproductive cell i.e. Heterocyst of Nostoc & Anabaena
 - D) None
- 28. Choose the wrong statement for chemosynthetic autotroph bacteria
 - A) They oxidise various inorganic substrate such as nitrates, nitrites & ammonia and use the released Energy for their ATP production
 - B) They play great role in recycling nutrient like nitrogen phosphorous, iron & sulphur
 - C) For their energy production they utilize solar energy
 - D) They can prepare their food from inorganic substrate.
- 29. Citrus canker is -
 - A) Plant disease cause by bacteria
- B) Human disease cause by bacteria
- C) Pet disease cause by bacteria
- D) None of these
- 30. Which of following is not economic importance of heterotrophic bacteria
 - A) Making curd from milk

B) Antibiotic production

C) N2 fixing in legumes root

- D) N2 fixing in Anabaena
- 31. Choose the incorrect option about bacterial reproduction -
 - A) Bacteria reproduce mainly by fission
 - B) Under unfavourable condition they produce spores
 - C) They also reproduce by sexual reproduction
 - D) They show a sort of sexual reproduction
- 32. Here are few statement given below, Identify organism on basis of statement
 - i. Lack cell wall

- ii. Smallest living cell known
- iii. Can survive without oxygen
- iv. Pathogenic in animal & plants.

- A) Nostoc
- B) Anabaena
- C) Mycoplasma
- D) Chlorella

Paragraph - 2.2

Kingdom Protista-Introduction

- 33. Protista includes -
 - A) Unicellular prokaryotes

B) Bacteriophages

C) Unicellular eukaryotes

- D) B.G.A
- 34. Which of the following kingdoms has no well defined boundaries?
 - A) Monera
- B) Protista
- C) Fungi
- D) Metaphyta and Metazoa

)

35.	Members of Protista	are primarily		
	A) Parasites	B) Terrestrial	C) Aquatic	D) Photosynthetic
36.	Nearly all protists ar	e -	, <u>-</u>	•
	A) Aerobic		B) Anaerobic	
	C) Aerobic or anaero	bic	D) Photosynthetic	
37.	Nutritionally, protist		, ,	
	A) Photoautotrophs		B) Heterotrophs	
	C) Saprotrophs		, =	s, heterotrophs or autotrophs
38.		les of nutrition, protists		s, necessaris es didicesso pric
00.	<u>-</u>	-	U -	otozoa); and absorptive, fungus like
	protists	(algae) and higestive)	armitar inte protists (pro	otozoa), and absorptive, rangus inc
	-	noflagellates and Eugle	enoids only	
	C) Slime moulds and	0	crioids offy	
	· ·	zoans and sporozoans	only	
39.	, .	-	•	
39.	A) Chryosophytes at	ng are placed under Pr		
	, , ,	O	B) Euglenoids	
40	C) Slime moulds and	-	D) All	
40.	Locomotory structur	-	C\ D11:-	D) A11
11	A) Flagella	B) Cilia	C) Pseudopodia	D) All
41.	Protista form a link v		C) F : 1	D) D1 (' 1 1('
	A) Plants only	B) Animals only	C) Fungi only	D) Plants, animals and fungi
			agraph – 2.2.1	
42.	Chrysophytes includ		<u>hrysophytes</u>	
4 ∠.	A) Diatoms and desr		B) Euglenoids	
	C) Dinoflagellates	mus (goiden aigae)	D) Slime moulds	
43.	,	na madaa af rannadud	tion can be found in at l	aast sama protists?
40.	A) Binary fission	ng modes of reproduct		<u> </u>
			B) Sexual reproduct D) All	tion
11	C) Spore formation	statement that does no	,	
44.	_	statement that does not	= = *	
	•	may be impregnated w		
	•	up of 2 half-shells fit ti	- ·	Jacollato
45.	C) Diatom is a chryse		D) Diatom is multif aceous earth is obtained	O
45.	A) Diatoms			
16	,	B) Dinoflagellates	, 0	D) Brown algae
46.			of the other algae because	
	A) They have highly		B) They have water	1
47	C) Their cell wall are	_	D) Cell wall is virus	s-resistant
47.		is used for all except	D) Eiltration of oils	and arrang
	A) Polishing C) Sound and fire pr	and room	B) Filtration of oils	and syrups
10	C) Sound and fire pr	001 100111	D) Biogas	
48.	Chrysophytes are -	R) Nolstone	C) Ronthonia	D) Active excimmers
40	A) Planktons Chief producers in a	B) Nektons	C) Benthonic	D) Active swimmers
49.	Chief producers in o		C) Euglanaida	D) Croop along
E0	A) Dinoflagellates	B) Diatoms	C) Euglenoids	D) Green algae
50.	Photosynthetic proti		os R) Euglopoids and a	alima maulda
	,	_	es B) Euglenoids and s	
	C) Diatoms and Zoo	O	D) Desmids +Ciliat	es
			agraph – 2.2.2 noflagellates	
51.	Dinoflagellates are n		<u> </u>	
J.	A) Marine	B) Fresh water	C) terrestrial	D) Saprophytes
52.	•	,	ue to super abundance (,
<i>∪</i> ∠.	A) Dinoflagellates	rasiai watei develop di	B) Euglenoid forms	
	C) Diatoms and desr	nids	D) Chlamydomonas 1	
	C) Diatolilo alla aesi	III	D) Shuniyaomonus I	nomio
1				

53.	Red tide is caused by -						
	•	Noctiluca	C) Gonyaulax	D) All of these			
54.	Dinoflagellates have -						
	A) A single flagellum in the						
	B) A single flagellum in the longitudinal groove between the cell plates						
	C) Two flagella one lies longD) No flagella	gitudinally and the	e other transversely in a	a furrow between the wall plates			
55.	In which of the following the	e cell wall has stif	f cellulose plate on the	outer surface –			
	9	Desmids	C) Diatoms	D) Euglenoids			
56.	Which of the following release		•	, e			
	A) Gonyaulax B) 1	Paramecium	C) Euglenoids	D) Sporozoans			
		<u>Parag</u>	<u>raph – 2.2.3</u>				
			<u>uglena</u>				
57.	Euglenoids e.g. Euglena are i	found -					
	A) In fresh running water		B) In fresh stagnant w				
	C) In marine environment	. 1	D) In both fresh and r	marine water			
58.	Which of the following state	9	ena is true?				
	A) Euglenoids are flagellates			auticity and dia			
	B) Euglena placed in continu		1 2	2			
	C) The pigments of EuglenaD) Euglena is a marine proti	-	it from those of green p	iants			
59.	Which of the following state		t Fuolena?				
0).	A) They show flagellar locor		D) = 1 1 1 1 1	cell wall			
	C) They have no chloroplast		D) They are obligate a				
60.	(Pg. 21, E)		, ,	1			
	i. Instead of a cell wall they	have a protein ricl	h pellicle making their l	body flexible.			
	ii. They have 2 flagella, a short and a long one.						
	iii. They have mixotrophic n						
		nthetic, but act as	heterotroph (predating	other smaller organism) when			
	they are in dark.						
	v. They are connecting link l	-	id animals.				
	The above statements are as	signed to -	D) Clima o ma outlid				
	A) Dinoflagellates		B) Slime mould				
	C) Desmids and Diatoms	Parag	D) Euglena raph – 2.2.4				
			ne Moulds				
61.	Slime moulds -						
	A) Are parasite		B) Do not produce fru	uiting bodies			
	C) Do not produce spores		D) Saprophytic protis	sts			
62.	The slimy mass of protoplas	m with nuclei for	ms the body of slime m	oulds is called -			
	A) Plasmodium B) 1	Myxamoeba	C) Sporocytes	D) Periplasmodium			
63.	Which of the following is co	•	, -	/ 1			
	I. Its thalloid body, plasmod			nd engulfing organic matter			
	II. During unfavourable con	ditions plasmodii	um differentiates and p	roduces fruiting bodies,			
	sporangium						
	III. Spores possess no true ce						
	IV. They are dispersed by air						
	V. Being extremely resistant	-	or many years				
	VI. Plasmodium can grow u	•	C) I II III 77	D) II III 17			
	A) I, II, IV, V, VI B) I	I, II , III	C) I, II , III, VI	D) II, III , VI			
			<u>raph – 2.2.5</u> stozoans				
64.	Protozoans are not included		otozoans malia because –				
U- I .	1 10toZoaris are not included	TI KII BUOIII AIIII.	mana occause -				

	A) Mostly asymmetrical	B) Unicellular eukaryo	otes		
	C) Heterotrophic nature	D) Multicellular prokaryotes			
65.	All protozoans are –	, 1			
	A) Saprophytes only	B) Parasites only			
	C) Predators only	,	sites or predator) only		
66.	Which of the following is considered to be prin	,	- · · ·		
	A) Dinoflagellates	B) Slime moulds			
	C) Protozoa	D) Protochordata			
67.	How many major groups protozoan have?	,			
	A) 3 B) 4	C) 2	D) 8		
68.	Which of the following are protozoans?	-/	, -		
	A) Diatoms, flagellates, ciliates	B) Desmids, flagellate	s, ciliates		
	C) Amoeboid, flagellates, ciliates, sporozoans	, , ,	,		
	D) Amoeba, Paramecium, dinoflagellates, Pla	smodium			
69.	Which of the following statements is wrong al		ozoans?		
	A) They live in freshwater, sea water or moist	soil			
	B) Amoeba has pseudopodia for locomotion a				
	C) Entamoeba show holozoic nutrition	1 1 7			
	D) Marine forms are shelled with silica				
70.	Flagellated protozoans are –				
	A) Free living	B) Parasites			
	C) Either free living or parasites	D) Pseudopodia			
71.	Which one is correct about <i>Trypanosoma?</i>	, 1			
	A) They are flagellated protozoan	B) They are parasite			
	C) They cause sleeping sickness	D) All			
72.	Paramecium-	,			
	A) Is a ciliated protozoan				
	B) Shows water current movement by cilia wh	ich helps the food to be	e steered into gullet		
	C) Has a cavity (gullet) that opens to the outsi	<u>-</u>	<u> </u>		
	D) All				
73.	Plasmodium (malarial parasite)				
	A) Is a ciliated protozoan				
	B) Shows water current movement by cilia wh	ich helps the food to be	e steered into gullet		
	C) Causes malaria	D) All			
74.	Which of the following always produce an infe	ectious spore like stage	in their life cycles?		
	A) Ciliated protozoans	B) Flagellated protozo	pans		
	C) Sporozoans	D) None			
	<u>Parag</u>	<u> </u>			
	Kingdom Fu	ngi - Introduction			
75.	Mode of nutrition in fungi is not –				
	A) Parasitic B) Saprophytic	C) Autotrophic	D) Heterotrophic		
76.	All of the following are fungi except –				
	A) Yeast B) Penicillium	C) Plasmodium	D) Puccinia		
77.	Which of the following is odd?				
	A) Toad stool B) Puccinia	C) Alternaria	D) Mushroom		
78.	Cell walls of all fungi consist of the polysaccha	aride -			
	A) Chitin B) Cellulose	C) Silica	D) Pectin		
79.	The body of multicellular fungus is called a –				
	A) Monokaryon B) Hyphae	C) Rhizoids	D) Dikaryon		
80.	The cells of the body of a multicellular fungus	are organised into rapi	dly growing individual filaments		
	called -				
	A) Mycelium B) Rhizoids	C) Hyphae	D) Dikaryon		
81.	Which one is unicellular fungus?				
	A) Puccinia B) Toad stool	C) Penicillium	D) Yeast		
82.	Coenocytic hypha is –				

	A) Uninucleate hypha		B) Multicellular hypha			
	C) Multinucleate hypha	a without septae	D) Hypha in coelom			
83.	Many fungi are in	association with photo	osynthetic organisms to	form mycorrhizae or lichens -		
84.	A) Parasitic	B) Symbiotic	C) Photosynthetic	D) Saprobic		
04.	Fungi can be parasites (A) Animals	B) Human being	C) Plants	D) All		
85.	Fungi prefer to grow in					
	A) Cold and dry places	3	B) Hot and dry places			
0.6	C) Sea water		D) Warm and humid	places		
86.	Fungi occur-		D\ I.,			
	A) In air and soil	ala	B) In water D) All			
87.	C) On plants and anima Fungi show a great div		D) All			
07.	A) Morphology	eisity iii –	B) Habitat			
	C) Both a and b		D) Nutrition			
88.	Reproduction in fungi	can take place by all of	,	ve methods except-		
	-	- •		_		
00	A) Gemmae	B) Fragmentation	C) Fission	D) Budding		
89.	Fungi show asexual rep	•	0 1	-		
00	A) Conidia	B) Oospore	C) Sporangiospore	D) Zoospores		
90.	Sexual reproduction in	•	0 1	D) Pasidiasmanas		
91.	A) Oospores	B) Ascopores	C) Zoospores	D) Basidiospores		
91.	Select the correct states A) Some fungi form be			on rungi-		
	B) Certain fungi are nat					
	C) The fungal life cycle					
	D) All	typically includes a sp	ore stage			
	B Zygote	C				
	A	D				
	Hyphae	W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	Conjugation by	E				
92.	opposite mating types					
93.	The above diagram sho	ows a generalized life c	ycle of a fungus. The ap	oppropriate terms for A to E are-		
	A) Spores are absent in	air	B) Spores are present	in the bread		
	C) Spores are in the air		D) The bread gets dec	composed ·		
94.	Which of the following	is the correct sequence	of 3 steps in the sexua	l cycle of fungi-		
	A) Mitosis Meiosis					
	B) Plasmogamy Kan					
	C) Meiosis Plasmo					
	D) Karyogamy Plas					
95.	Fungi are classified on					
	A) Morphology of myc		B) Development of fr	uiting bodies		
0.6	C) Mode of spore form		D) All			
96.	Dikaryophase I Dikary	on formation is a specif				
	A) All fungi		B) Phycomycetes and	•		
07	C) Only basidiomycete		D) Ascomycetes and	basidiomycetes		
97.	Coenocytic, multinucle	rate and branched myce				
	A) Basidiomycetes		B) Phycomycetes			
98.	C) Ascomycetes Column I		D) Deuteromycetes Column II			
<i>y</i> 0.	A. Phycomycetes		I. Sac fungi			
	11. I Hycomycetes		1. Jac tuligi			

	B. Ascomycetes	II. Algal fungi
	C. Basidiomycetes	III. Fungi imperfecti
	D. Deuteromycetes	IV. Club fungi
	The correct matching is -	
	A) A-II, B-I, C- IV, D-III	B) A- II, B - IV, C - I, D - III
	C) A- IV, B - I, C - II, D - III	D) A- IV, B - III, C - II, D - I
	-	<u>raph – 2.3.1</u>
00		<u>omycetes</u>
99.	Members of phycomycetes are found-	II On decaying wood
	I. In aquatic habitat III. On moist and damp places	II. On decaying wood IV. As obligate parasite on plants
	A) None of the above	B) I and IV
	C) II and III	D) All of the above
.00	In phycomycetes asexual reproduction occurs	, , , , , , , , , , , , , , , , , , ,
	A) Zoospores (motile)	B) Aplanospores (non-motile)
	C) Both	D) Aplanogamete
.01	Which of the following spores are produced en	
	A) Zoospores and Conidia	B) Conidia and aplanospores
	C) Aplanospores and zoospores	D) Aplanospore, zoospores and conidia
.02.	In Phycomycetes sexual reproduction occurs b	
	A) Isogamy and anisogamy	B) Isogamy, oogamy
02	C) Isogamy, anisogamy and oogamy	D) Oogamy and anisogamy
103.	All the following belong to phycomycetes exce A) Penicillium	•
	C) Mucor	B) Rhizopus (bread mould) D) Albugo
04.	Which of the following is parasite on mustard	,
	A) Albugo B) Puccinia	C) Yeast D) Ustilago
	, ,	<u>raph – 2.3.2</u>
		<u>omycetes</u>
05.	Which of the following is false about ascomyce	
		r, coprophilous (growing on dung) and parasitic
	B) Includes unicellular (e.g. yeast) and multice	ellular forms
	C) Mycelium is coenocytic	1 (1
06	D) Aspergillus, Claviceps, Neurospora are imp	•
106.	I. It includes unicellular as well as multicellula II. In multicellular forms hyphae are branched	e e e e e e e e e e e e e e e e e e e
	III. Conidiophore produces conidia (spores) ex	<u>=</u>
	IV. Sexual spores are ascopores produced ende	
	V. Fruiting body is called ascocarp	ogenously in riseus
	Which of the above characters are show by -?	
	A) Phycomycetes B) Sac fungi	C) Club fungi D) Fungi imperfecti
.07.	Which of the following are edible ascomycete'	s delicacies?
	A) Morels+ Mushroom	B) Truffles+ Toadstool
	C) Morels+ Truffles	D) Puffball+ Mushroom
.08	Which of the following is used extensively in b	<u> </u>
00	A) Agaricus B) Alternaria	C) Neurospora D) Mucor
109.	Which of the following ascomycetes is the sou A) Neurospora B) Penicillium	C) Claviceps D) None
	, ,	raph – 2.3.3
		iomycetes
10.	Basidiomycetes include -	
	A) Mushroom, Toadstool, Puffball and bracke	t fungi
	B) Smut fungi and rust fungi	-
	C) Both a and b	
	D) Bread mould, sac fungi and algal fungi	

111.	Which of the following are common parasite	basidiomycetes	
	A) Puccinia (rust) and Ustilago (smut)	B) Sac fungi	
	C) Puffballs	D) Agaricus (mu	ishroom)
112.	Where does meiosis occur in mushroom?	, 0	,
	A) Basidiospore B) Basidium	C) Basidiocarp	D) Ascus mother cell
113.	I. Mycelium is branched and septate	c) businessip	2) House mouner cen
115.	•		
	II. No asexual spores are generally formed		
	III. Vegetative reproduction by fragmentation		
	IV. Sex organs are absent but sexual reprodu		
	V. Karyogamy and meiosis occur in basidium	n to form haploid e	xogenous 4 basidiospores
	VI. Basidia are arranged in basidiocarp.		
	The above characters are assigned to –		
	A) Sac fungi B) Club fungi	C) Algal fungi	D) Fungi imperfect
114.	Plasmogamy in fungi is the fusion of-		
	A) Two haploid gamete cells and their nuclei	at once	
	B) Two haploid nuclei		
	C) Two haploid gamete cells		
	D) Two diploid vegetative cells with nuclei		
115.	Karyogamy is -		
	A) Fusion of two protoplasts		
	B) Fusion of two nuclei		
	C) Fusion of two plasma membranes		
	D) All of these		
	•	graph – 2.3.4	
		eromycetes	
116.	Which of the following is false about deutero		(
	A) They reproduce only by asexual spores (c	•	•
	B) Mycelium is branched and septate	,	
	C) They have only parasitic forms		
	D) They have no sexual stage (perfect stage)		
117.	Which of the following is correct about class	Deuteromycetes?	
117.	A) Some members are saprophytes or parasit	•	
	B) A large number of members are decompositions		In in mineral cycling
	C) Alternaria, Colletotrichum and Trichoderi		
	D) All	ina are dedictority	ectes
118.	Sexual reproduction is found in all except		
110.	<u> </u>	P) Assamrastas	
	A) Deuteromycetes	B) Ascomycetes	haa
110	C) Phycomycetes	D) Basidiomycet	
119.	If sexual stage is discovered in a member of o		
	A) Phycomycetes	B) Basidiomycet	es
	C) Ascomycetes	D) Both band c	_
100		Based Question	<u>s</u>
120.	Identify the diagram.		
	(A) (i) Mucor (ii) Aspergillus (iii) Agaricus		
	(B) (i) Aspergillus (ii) Mucor (iii) Agaricus		
	(C) (i) Agaricus (ii) Aspergillus (iii) Mucor		
	(D) (i) Agaricus (ii) Mucor (iii) Aspergillus		
121.	Identify the diagram.		
		11. 4	
	(i)	(ii)	(iii)

	A) (i) Dinoflagellates (ii) Euglena B) (i) Dinoflagellates (ii) Paramoceium C) (i) Euglena (ii) Dinoflagellates D) (i) Slima mould (ii) Paramocium	
122.	D) (i) Slime mould (ii) Paramecium Kingdom plantae includes-	
122.	i. All eukaryotic chlorophyllous organisms	
	ii. Some prokaryotic chlorophyllous organisms	
	iii. Few eukaryotic partial heterotrophic plant	
	iv. Few prokaryotic partial heterotrophic plant	
	A) i, iii B) ii, iv C) i, ii, iii	D) i, iii, iv
123.	Plantae does not includes how many of following-	-) -,, - :
	Algae, Fungi, Bryophyte, Bladderwort, Pteridophyta, Gymnosperm,	Angiosperm
	A) Zero B) One C) Two	D) Three
124.	Life cycle of angiosperms plant have-	,
	A) Diploid sporophyte & diploid gametophyte	
	B) Diploid gametophyte & haploid sporophyte	
	C) Diploid sporophyte & haploid gametophyte	
	D) Haploid sporophyte & haploid gametophyte	
125.	How many of following enlisted are correct about plantae-	
	I. Cells have eukaryotic structure	
	II. Prominent chloroplast	
	III. Cellulosic cell wall	
	IV. Life cycle has three distinct phase V. Show alteration of generation	
	A) One B) Two C) Three	D) Four
	Paragraph – 2.5	2)1041
	Kingdom Animalia	
126.	Kingdom Animalia are characterized by	
	A) Heterotrophic eukaryotic unicellular & multicellular organism tha	t lack cell wall
	B) Holozoic ,digest food in an internal cavity and store food as compl	ex carbohydrates or fat
	C) Higher as well as lower forms show elaborate sensory mechanisms	S
	D) All of the above	
127.	How many of following term is correct about Animalia-Heterotroph,	
	unicellular, multicellular, store food as glycogen, presence of elaborat	ted neuromotor mechanism
	without any exception, embryological development	D) I (1 0
	A) 6 B) More than 6 C) 5 Paragraph – 2.6	D) Less than 3
	<u> </u>	
128.	In R.H Whittaker system, viroids, prions & lichens are grouped into-	
	A) Monera B) Protista	
	C) Protista and fungi D) None of these	
129.	Viruses did not place in classification due to-	
	A) Lack in study of viruses	
	B) They are not considered truly 'living'	
	C) Lack of genetic material	
	D) All of these	
130.	Viruses are not-	
	A) Non-cellular organism	
	B) Inert crystalline structure outside the living cell	
	C) Active crystalline structure outside the living cell D) Once they infect a cell they take over the machinery of host cell to	raplicate themselves killing the
	host	replicate themserves, killing the
131.	The name viruses-	
	A) which means venom was given by Dmitri Ivanowsky	
	B) which means venom was given by M.W. Beijerinek	
	,	

	C) which means venom D) which means venom			
132.				
	(A)	(c)		
	Identify a, b & organism	7.5		
	A) a=DNA, b=capsid, c		B) a=RNA, b=capsid,	c=TMV
	C) a=capsid, b=DNA, c		D) a=capsid, b=RNA,	
133.	choose the correct state:		D) a capsia, b itivit,	e bacteriopriage
100.	A) genetic material of n		ro causing organism is	DNA
	, 0		0 0	d through bacteria proof filters
	· ·		• •	ant of tobacco could cause
	infection in healthy plan		re extract of indected p	
			eria and they can passe	ed through bacteria proof filters.
134.	Contagium vivum fluid		i i i i i i i i i i i i i i i i i i i	8
	A) Dmitri lavanowsky (_	B) M.W. Beijerinek (1	892)
	C) W.M. Stanley (1935)	,	D) None of these	,
135.	Who showed that virus	es could be crystallized	d & crystals outside ho	st-
	A) W.M. Stanley(1935)		B) M.W.Beijerinek (18	398)
	C) Dmitri lvanowsky (1	892)	D) M.W. Stanley (189	8)
136.	Which of following is n	•		
	A) Carbohydrate	B) Protein	C) Fat	D) Nucleic acid
137.	Viruses are			
	A) Autotroph	B) Obligate parasite	C) Saprotroph	D) Holozoic
138.	Genetic material of viru	ses are/is -		
	A) DNA		B) RNA	
	C) DNA and RNA both			
120	D) DNA or RNA in an i			
139.	The infection material o	of viruses is/are	D) Compting management	
	A) Protein coatC) Nucleoprotein		B) Genetic material	
140.	In general viruses that i	nfact plants have	D) All of these	
140.	A) ds RNA	B) ss RNA	C) ds DNA	D) ss DNA
141.	Animal infection viruse	,	C) us DIVA	D) SS DIVA
111.	A) ss RNA	B) ds RNA	C) ds DNA	D) ss DNA
142.	genetic material of bact	,	c) do Divii	<i>D</i>) 55 <i>D</i> 1 111
	A) ds DNA	B) ss RNA	C) ds RNA	D) ss DNA
143.	bacteriophage is -	,	-,	,
	A) bacteria that infect v	irus		
	B) virus that infect bact			
	C) bacteria that infect co	ellular organism		
	D) virus that infect other	er than bacteria		
144.	The protein coat called virus	(A) made of sma	all subunit called(B) that protect(C) of
	A) $A = capsomere$, $B = capsomere$	capsid, C= genetic mat	erial	
	B) $A = capsid$, $B = capse$			
	C) $A = capsid$, $B = capse$	omere, C = enzyme and	d mineral	
	D) $A = capsomere$, $B = capsomere$	capsid, C = enzyme an	d mineral	

145.	Head of bacteriophage is	S –							
	A) Helical	B) Polyhedral	C) Icosahedral	D) A & B					
146.	,	•	,	•					
	(A)								
	(C) (B)								
	←—(D)								
	A) A 1 1D 1 1		11						
	A) $A = \text{head } B = \text{sheath},$								
	B) A = head B = collar C = sheath, D = tail fibers C) A = collar B = head C = tail fibers D = sheath								
	,								
147.	D) A = tail fibers B = she Viroid was discovered b		ır						
14/.	A) T.O. Diener (1971)	y –							
	B) W.M. Stanley (1935)								
	C) T.O diener (1935)								
	D) W.M. Stanley (1971)								
148.	Choose the correct on ba	sis of size :							
,	A) Bacteria <virus<viroid< td=""><td></td><td>B) Viroid<virus<bacte< td=""><td>ria</td></virus<bacte<></td></virus<viroid<>		B) Viroid <virus<bacte< td=""><td>ria</td></virus<bacte<>	ria					
	C) Viroid>bacteria <virus< td=""><td></td><td>D) Bacteria>viroid>vi</td><td></td></virus<>		D) Bacteria>viroid>vi						
149.	Given below are stateme		,						
	i. Viroid=virus-capsid	,	ii. Potato spindle disea	ase cause by prions					
	iii. Viroid have free DNA	Α	iv. Viroid have free RN						
	v. DNA of viroid was of low molecular weight								
	iv. RNA of viroid was of light molecular weight								
	A) i,iv only	B) i, vi, iii	C) i, iv, vi	D) i, iii, v					
150.	Prion cause-								
	A) BSE in cattle and CJD	in human							
	B) BSE in human and CJ								
	C) BSE and CJD cause in								
a - a	D) BSE and CJD cause in	human							
151.	Prions are-		D) I .1 .1						
	A) Smaller than virus		B) Larger than virus						
150	C) Smaller than viroid	DCE	D) Similar in size to vi	ruses					
152.	Choose the incorrect abo		lanhathr						
	A) It expanded as BovineB) Caused by prion	e spongnorm encepha	юрнанту						
	C) Its analogous variant	ic CID							
	D) Its homologous varian								
153.	Lichen are –	111 15 CJD							
100.	A) Saprotroph only		B) Symbiotic						
	C) Parasitic only		D) A & C						
154.	Lichen are mutual associ	lation of-	,						
	A) Mycobiont (fungal) as	nd phycobiont (algae)							
	B) Gymnosperm root & 1	1 , , ,							
	C) Algae & gymnosperm	root							
	D) All of these								
155.	Mycobiont and phycobio	-	ctively						
	A) Autotrophic & hetero	-							
	B) Autotrophic & autotro								
	C) Heterotrophic & auto								
454	D) Heterotrophic & hete	-							
156.	The function of fungal p	art 1s l1chen 1s/are							

455	A) Water absorption C) Provide shelter	B) Mineral absorption D) All of these		
157.	Lichen cannot grow in – A) Polluted area C) Association between fungi and algae is unp D) All of these	B) Area where there is no polluted region	pollution	
	NEET PREVIO	US YEARS QUE	STIONS	
1.	Select the incorrect statement.		[2018]	
	(a) Cell wall is present in members of fungi a	nd plantae.		
	(b) Mushrooms belong to basidiomycetes.	11 ' 11 1 ' 1		
	(c) Mitochondria are the powerhouse of the c		onera.	
2.	(d) Pseudopodia are locomotory and feeding Which among the following is not a prokaryo	*	[2018]	
2.		rium (c) Oscillatoria	(d) Nostoc	
3.	Ciliates differ from all other protozoans in	ium (c) Osciiuioria	[2018]	
	(a) using flagella for locomotion.		[2010]	
	(b) having a contractile vacuole for removing	excess water.		
	(c) having two types of nuclei.			
	(d) using pseudopodia for capturing prey.			
4.	Which of the following organisms are known	=		
5	(a) Dinoflagellates (b) Diatoms	(c) Euglenoids	(d) Cyanobacteria	
5.	After karyogamy followed by meiosis, spores (a) <i>Neurospora</i> (b) <i>Alternaria</i>	(c) Saccharomyces	m [2018] (d) <i>Agaricus</i>	
6.	Which of the following components provides	* * *	· / •	
0.		nbrane (c) Glycocalyx	(d) Cell wall	
7.	Which of the following are the smallest living		. ,	
	plants as well as animals and can survive with		[2017]	
	(a) Pseudomonas (b) Mycoplasm	a (c) Nostoc	(d) Bacillus	
8.	Which of the following are found in extreme		[2017]	
	(a) Eubacteria (b) Cyanobacte	ria (c) Mycobacteria	(d) Archaebacteria	
9.	Viroids differ from viruses in having	(1) DNIA 1 1	[2017]	
	(a) DNA molecules without protein coat.	(b) RNA molecules v	-	
10.	(c) RNA molecules without protein coat. Chrysophytes, euglenoids, dinoflagellates and	(d) DNA molecules v	-	
10.	kingdom? [2016]	a sinne modius are meiaded	in which of the following	
	(a) Monera (b) Protista	(c) Fungi	(d) Animalia	
11.	One of the major components of cell wall of		[2016]	
	(a) chitin (b) peptidoglyc	an (c) cellulose	(d) hemicellulose	
12.	Which one of the following statements is inc		[2016]	
	(a) Cyanobacteria are also called blue-green			
12	(c) Eubacteria are also called false bacteria.		e also called algal fungi.	
13.	Which of the following statements is incorre (a) They lack a protein coat.	(b) They are smaller	[2016]	
	(c) They cause infections.		high molecular weight.	
14.	Which of the following structures is not found		[2015]	
	(a) Ribosome (b) Mesosome		e (d) Nuclear envelope	
15.	The structures that help some bacteria to attac			
	(a) Fimbriae (b) Mesosomes	(c) Holdfast	(d) Rhizoids	
16.	Pick up the incorrect statement.		[2015]	
	(a) Protista have photosynthetic and heterotro	ophic modes of nutrition.		
	(b) Some fungi are edible.			
	(c) Nuclear membrane is present in monera.			

	(d) C	ell wall is absent i	in animalia.				
17.							
					11 0		[2015]
		uglenoids			lime moulds		rysophytes
18.			nich are decomposer of litter			_	
		asidiomycetes	(b) Phycomycetes	(c) A	scomycetes	(d) De	euteromycetes
19.		ch one is incorrect					[2015]
		<i>lucor</i> has biflagell					
			is a typical feature of gymno				
			chlorophyll a and c and fucox				
20.		renegonia are ioui ose the incorrect s	nd in bryophyta, pteridophyta	a and	gymnosperms.		[2015]
40.			in the study of biochemical	renet i	CC		[2015]
		-	are poisonous mushrooms.	geneti	.cs.		
			and useful in fermentation.				
			icellular and produces antibio	otics.			
21.			wing matches is correct?				[2015]
	a)	Alternaria	Sexual reproduction absent		Deuteromycete	S	,
	b)	Mucor	Reproduction by conjugation	n	Ascomycetes		
	c)	Agaricus	Parasitic fungus		Basidiomycete	S	
	d)	Phytophthora	Aseptate mycelium		Basidiomycete		
							•
22.	True	nucleus is absent	in (b) <i>Vaucheria</i>				[2015]
	(a) M	lucor	(b) Vaucheria	` /	Tolvox	` /	nabaena
23.		_	g are most suitable indicators		_		
	. /	onifers	(b) Algae	(c) F	ungi	(d) Lie	
24.		ses have		(1.)	1 1		[2014]
		NA enclosed in a			rokaryotic nucle		
25.		ngle chromosome	of classification suggested by		oth DNA and RN		n [2014]
25.			e of a well-defined nucleus.		node of reproduc		n [2014]
		node of nutrition.	of a wen defined nacicus.		omplexity of boo		nisation
26.			rom eubacteria in :	(4)		., organ	[2014]
		ell membrane	(b) Mode of nutrition	(c) C	Cell shape	(d) Me	ode of reproduction
27.	The 1	motile bacteria are	e able to move by:	` /	1	. ,	[2014]
	(a) fi	mbriae	(b) flagella	(c) c	ilia	(d) pil	i
28.	Whic	ch one of the follow	wing fungi contains hallucing	ogens	?		[2014]
	· /	Iorchella esculento	\(\frac{1}{2}\)	` /		(d) <i>Us</i>	tilago sp.
29.		_	g shows coiled RNA strand an	_			[2014]
	. /	olio virus		` /	obacco mosaic v	irus	
20	` /	leasle virus		(d) R	Retrovirus		(NIEEE 2010)
30.			statements is incorrect?		ma ablicata mana	uit aa	(NEET-2019)
		oids lack a protein		uses a	are obligate paras	snes	
			in viruses is the protein coat ormally folded proteins				
31.			statements is incorrect?				(NEET-2019)
<i>J</i> 1.			re edible delicacies.				(IVEE 1-2017)
	` /		of many alkaloids and LSD.				
			d exogenously and ascospore		genously.		
		-	ous bodies with long thread-l		•		
32.		Column - I with C		,	•		(NEET-2019)
	Colum	nn - I Column	ı - II				,
			biotic association of fungi w	-			
	(b) Par	rasite (ii) Dec	composition of dead organic	mater	ials		

(c) Lichens (iii) Living on living plants or animals (d) Mycorrhiza (iv) Symbiotic association of algae and fungi Choose the correct answer from the options given below: (a) (b) (c) (d) (1) (i) (ii) (iii) (iv) (2) (iii) (ii) (i) (iv) (3) (ii) (i) (iii) (iv) (4) (ii) (iii) (iv) (i) 33. Mad cow disease in catttle is caused by an organism which has:-(NEET-2019 ODISSA) (1) inert crystalline structure (2) abnormally folded protein (3) free RNA without protein coat (4) free DNA without protein coat 34. Which of the following statements is correct? (NEET-2019 ODISSA) (1) Lichens do not grow in polluted areas. (2) Algal component of lichens is called mycobiont. (3) Fungal component of lichens is called phycobiont (4) Lichens are not good pollution indicators. 35. Match the organisms in column-I with habitats in column-II (NEET-2019 ODISSA) Column-I Column-II (a) Halophiles (i) Hot springs (b) Thermoacidophiles (ii) Aquatic environment (c) Methanogens (iii) Guts of ruminants (d) Cyanobacteria (iv) Salty area Select the correct answer from the options given below:-(1) (a)-(iv), (b)-(i), (c)-(iii), (d)-(ii) (2) (a)-(i), (b)-(ii), (c)-(iii), (d)-(iv) (3) (a)-(iii), (b)-(iv), (c)-(ii), (d)-(i) (4) (a)-(ii), (b)-(iv), (c)-(iii), (d)-(i) 36. Which of the following is incorrect about Cynobacteria? (NEET-2020 COVID) (1) They are photoautotrophs (2) They lack heterocysts (3) They often form blooms in polluted water bodies (4) They have chlorophyll A similar to green plants 37. Which of the following is correct about viroids? (NEET-2020) 1) They have free DNA without protein coat 2) They have RNA with protein coat 3) They have free RNA without protein coat 4) They have DNA with protein coat 38. Which of the following statements is **correct**? [NEET-2021] 1) Fusion of protoplasms between two motile on non-motile gametes is called plasmogamy. 2) Organisms that depend on living plants are called saprophytes. 3) Some of the organisms can fix atmospheric nitrogen in specialized cells called sheath cells. 4) Fusion of two cells is called Karyogamy. 39. Given below are two statements: [NEET-2022] Statement I: Mycoplasma can pass through less than 1 micron filter size. Statement II: Mycoplasma are bacteria with cell wall. In the light of the above statements, choose the most appropriate answer from the options given below: 1) Both statements I and Statements II are correct 2) Both statement I and Statement II are incorrect 3) Statement I is correct but Statement II is incorrect 4) Statement I is incorrect but Statement II is correct 40. Which of the following is a correct statement? [NEET-2022] 1) Cyanobacteria area a group of autotrophic organisms classified under Kingdom Monera 2) Bacteria are exclusively heterotrophic organisms 3) Slime moulds are saprophytic organisms classified under Kingdom Monera 4) Mycoplasma have DNA, Ribosome and cell wall

NCERT LINE BY LINE QUESTIONS – ANSWERS

1) D	2) D	3) A	4) D	5) A	6) D	7) A	8) A	9) C	10) B
11) C	12) D	13) B	14) A	15) D	16) B	17) A	18) A	19) D	20) A
21) C	22) B	23) A	24) D	25) D	26) A	27) A	28) C	29) A	30) D
31) C	32) C	33) C	34) B	35) C	36) A	37) D	38) A	39) D	40) D
41) D	42) A	43) D	44) D	45) A	46) A	47) D	48) A	49) B	50) A
51) A	52) A	53) C	54) C	55) A	56) A	57) B	58) A	59) A	60) D
61) D	62) A	63) A	64) B	65) D	66) C	67) B	68) C	69) D	70) C
71) D	72) D	73) C	74) C	75) C	76) C	77) C	78) A	79) B	80) C
81) D	82) C	83) B	84) D	85) D	86) D	87) C	88) A	89) B	90) C
91) D	92) B	93) C	94) B	95) D	96) D	97) B	98) A	99) D	100) C
101) C	102) C	103) A	104) A	105) C	106) B	107) C	108) C	109) B	110) C
111) A	112) B	113) B	114) C	115) D	116) C	117) D	118) A	119) D	120) C
121) B	122) A	123) B	124) C	125) D	126) D	127) C	128) D	129) B	130) C
131) A	132) B	133) D	134) D	135) A	136) B	137) B	138) D	139) B	140) B
141) D	142) A	143) B	144) B	145) D	146) B	147) A	148) B	149) C	150) A
151)D	152) D	153) B	154) A	155) C	156) D	157) A			

NEET PREVIOUS YEARS QUESTIONS-ANSWERS

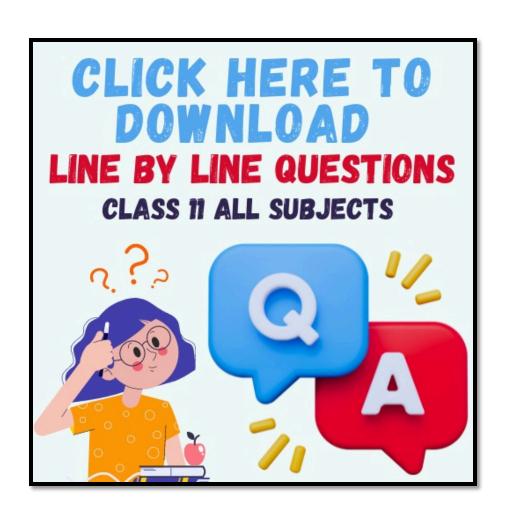
1) d	2) a	3) c	4) b	5) d	6) c	7) b	8) d	9) c	10) b
11) a	12) c	13) d	14) d	15) a	16) c	17) d	18) d	19) a	20) b
21) a	22) d	23) d	24) a	25) a	26) a	27) b	28) b	29) b	30)3
31)4	32)4	33) 2	34) 1	35) 1	36) 2	37)3	38) 1	39)3	40) 1

NEET PREVIOUS YEARS QUESTIONS-EXPLANATIONS

- **1. (d)** Pseudopodia are locomotory structures in sarcodines (amoeboid).
- **2. (a)** Saccharomyces i.e. yeast is an eukaryote (unicellular fungi). Mycobacterium is a bacterium. Oscillatoria and Nostoc are cyanobacteria.
- **3. (c)** Ciliates differs from other protozoans in having two types of nuclei. E.g., *Paramoecium* have two types of nuclei *i.e.* macronucleus & micronucleus.
- **4. (b)** Diatoms are the chief producers or the most common form of phytoplankton in the ocean. They utilise inorganic nutrients to form proteins, fats and organic material & provide food for various sea creatures.
- **5. (d)** In *Agaricus* (a genus of basidiomycetes), basidiospores or meiospores are produced exogenously. *Neurospora* (a genus of ascomycetes) produces ascospores as meiospores but endogenously inside the ascus). *Alternaria* (a genus of deuteromycetes) does not produce sexual spores. *Saccharomyces* (unicellular ascomycetes) produces ascospores, endogenously.
- **6. (c)** Sticky character of the bacterial wall is due to glycocalyx which is rich in glycoproteins.
- **7. (b)** Mycoplasmas are smallest, prokaryotes lacking cell wall and are pleomorphic in nature. These are pathogenic to both plants and animals.
- **8. (d)** Archaebacteria are able to survive in harsh conditions due to the presence of branched lipid chain in cell membrane that reduces fluidity of cell membrane. It includes halophiles which are exclusively found in saline habitats.
- **9.** (c) Viroids are sub-viral agents as infectious RNA particles, without protein coat.
- **10. (b)** All unicellular eukaryotic organism like diatoms, desmids (chrysophytes), euglenoids, dinoflagellates and slime mould are included in protista.
- 11. (a)
- 12. (c) Eubacteria are the true bacteria.
- 13. (d)
- **14.** (d) Nuclear envelope is not found in a prokaryotic cell.
- 15. (a) Fimbriae help bacteria to get attachment with rocks or host body to get establishment and nutrition.
- 16. (c) The kingdom monera possesses unicellular organisms (e.g bacteria) having no nuclear membrane.
- 17. (d) In chrysophytes, the cell walls form two thin overlapping shells held together. The body of diatoms appears like soap box due to overlapping shells.

- **18.** (d) Class-deuteromycetes contains imperfect fungi which play an important role in decomposition of Organic wastes.
- **19.** (a) The spores are non-motile in *Mucor*.
- 20. (b) Morel and truffles are used as food and they are members of ascomycetes fungi.
- **21.** (a) *Alternaria* belongs to class deuteromycetes, which lack sexual reproduction. Asexual reproduction Takes place by conidia produced on conidiophores.
- 22. (d) Anabaena is a cyanobacteria which lack a true nucleus because of absence of nuclear membrane.
- 23. (d) Lichens cannot grow in the place where sulphur dioxide, pollutant is available in the environment.
- 24. (a)
- 25. (a)
- **26.** (a) Archaebacteria differ from other bacteria in having a different cell wall structure. They lack peptidoglyan in cell wall and possess a monolayer of branched fatty acids attached to glycerol by ether bonds in their cell membranes.
- 27. (b) Motile bacteria have thin filamentous extensions from their cell wall called flagella.
- **28. (b)** Several mushrooms such as *Amanita muscaria*, *Psilocybe mexicana* and *Panaeolus* spp. secrete hallucinogenic substances like psilocybin and psilocin.

 These substances may destroy brain cells and perception power of human beings.
- 29. (b)
- 37. Viroids are infectious nucleic acid contains only ssRNA
- 38. Fusion of protoplasm between two motile or non motile gametes is called plasmogamy
- 39 Mycoplasma are bacteria with out cell wall.
- **40.** CYANOBACTERIA comes under KINGDOM Monera





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Class 12 (Commerce)

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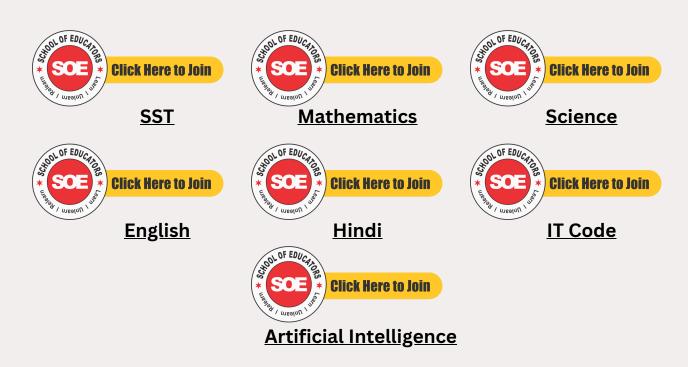
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To maximize the benefits of these WhatsApp groups, follow these guidelines:

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- 2. Help your fellow educators by answering their queries.
- 3. Watch and engage with shared videos in the group.
- 4. Distribute WhatsApp group resources among your students.
- 5. Encourage your colleagues to join these groups.

Additional notes:

- 1. Avoid posting messages between 9 PM and 7 AM.
- 2. After sharing resources with students, consider deleting outdated data if necessary.
- 3. It's a NO Nuisance groups, single nuisance and you will be removed.
 - No introductions.
 - No greetings or wish messages.
 - No personal chats or messages.
 - No spam. Or voice calls
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Beauty & Wellness



<u>Design Thinking &</u> Innovation



Financial Literacy



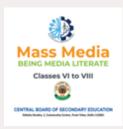
Handicrafts



Information Technology



Marketing/Commercial Application



<u>Mass Media - Being Media</u> <u>Literate</u>



Travel & Tourism



Coding



<u>Data Science (Class VIII</u> <u>only)</u>



<u>Augmented Reality /</u>
<u>Virtual Reality</u>



Digital Citizenship



<u>Life Cycle of Medicine & Vaccine</u>



Things you should know about keeping Medicines at home



What to do when Doctor is not around



Humanity & Covid-19



CENTRAL BOARD OF MICHAEL PROCESSOR

CONTRAL BOARD OF MICHAEL PROCE







Food Preservation



<u>Baking</u>



<u>Herbal Heritage</u>



<u>Khadi</u>



Mask Making



Mass Media



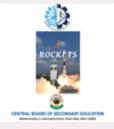
Making of a Graphic Novel



<u>Embroidery</u>



<u>Embroidery</u>



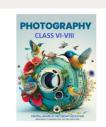
Rockets



Satellites



<u>Application of</u> <u>Satellites</u>



<u>Photography</u>

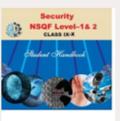
SKILL SUBJECTS AT SECONDARY LEVEL (CLASSES IX - X)



Retail



Information Technology



Security



<u>Automotive</u>



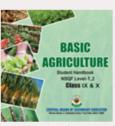
Introduction To Financial Markets



Introduction To Tourism



Beauty & Wellness



<u>Agricultur</u>e



Food Production



Front Office Operations



Banking & Insurance



Marketing & Sales



Health Care



<u>Apparel</u>



Multi Media



Multi Skill Foundation **Course**



Artificial Intelligence



Physical Activity Trainer



Data Science



Electronics & Hardware (NEW)



Foundation Skills For Sciences (Pharmaceutical & Biotechnology)(NEW)



Design Thinking & Innovation (NEW)

SKILL SUBJECTS AT SR. SEC. LEVEL (CLASSES XI - XII)



Retail



<u>InformationTechnology</u>



Web Application



Automotive



Financial Markets Management



Tourism



Beauty & Wellness



Agriculture



Food Production



Front Office Operations



Banking

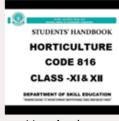


Marketing





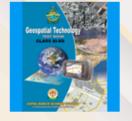
Insurance



Horticulture



Typography & Comp. **Application**



Geospatial Technology



Electronic Technology



Multi-Media



Taxation



Cost Accounting



Office Procedures & Practices



Shorthand (English)



Shorthand (Hindi)



<u>Air-Conditioning &</u> <u>Refrigeration</u>



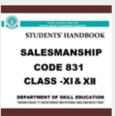
Medical Diagnostics



Textile Design



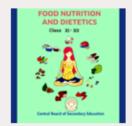
<u>Design</u>



<u>Salesmanship</u>



<u>Business</u> Administration



Food Nutrition & Dietetics



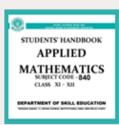
Mass Media Studies



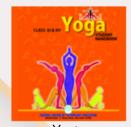
<u>Library & Information</u> <u>Science</u>



Fashion Studies



Applied Mathematics



<u>Yoga</u>



<u>Early Childhood Care &</u> <u>Education</u>



<u>Artificial Intelligence</u>



Data Science



Physical Activity
Trainer(new)



Land Transportation
Associate (NEW)



Electronics & Hardware (NEW)



<u>Design Thinking &</u> <u>Innovation (NEW)</u>

